

shall be engineered and designed so as to eliminate or minimize the amount of coal fender to be left as a permanent pillar on the spoil side of the pit.

(2) The amount of bottom or rider coal beds wasted in each pit will be minimized consistent with individual mine economics and the coal quality standards that must be maintained by the operation.

(3) The abandonment of a mining area shall require the approval of the authorized officer.

(4) If a coal bed exposed by surface mining or an accumulation of slack coal or combustible waste becomes ignited, the operator/lessee shall immediately take all necessary steps to extinguish the fire and protect the remaining coal.

(5) The authorized officer shall approve the conditions under which a surface mine, or portions thereof, will be temporarily abandoned, pursuant to the rules of this part.

(6) *Barrier or boundary coal.* The operator/lessee shall be encouraged by the authorized officer, in the interest of conservation of recoverable coal reserves and other resources, to mine coal up to the Federal lease or license boundary line; provided that, the mining is in compliance with existing State and Federal mining, environmental and reclamation laws and rules, the mining does not conflict with existing surface rights, and the mining is carried out without undue hardship to the operator/lessee and with due consideration for safety.

(e) *Performance standards for auger mines.* (1) If auger mining is proposed, the authorized officer shall take into account the percentage of recovery, which in general shall exceed 30 percent, and the probable effect on recovering the remaining adjacent recoverable coal reserves by underground mining. If underground mining from the highwall or outcrop is contemplated in the foreseeable future, auger mining may not be approved if underground mining would ensure greater recovery of the unmined recoverable coal reserves. Where auger mining is authorized, the authorized officer will require a sufficient number and size of pillars at regular intervals along the highwall

or outcrop to ensure access to the unmined recoverable coal reserves.

(2) A plan for recovery of recoverable coal reserves by auger methods shall be designed to achieve MER.

(3) Auger mining must comply with the rules of this part, and 30 CFR Chapter VII or applicable requirements of an approved State program.

[47 FR 33179, July 30, 1982; 47 FR 53366, Nov. 26, 1982. Redesignated at 48 FR 41589, Sept. 16, 1983]

§ 3484.2 Completion of operations and permanent abandonment.

(a) Before permanent abandonment of exploration operations, all openings and excavations shall be closed, backfilled, or otherwise permanently dealt with in accordance with sound engineering practices and according to the approved exploration plan. Drill holes, trenches, and other excavations for exploration shall be abandoned in such a manner as to protect the surface and not endanger any present or future underground operation, or any deposit of coal, oil, gas, mineral resources, or ground water. Areas disturbed by exploration operations will be graded, drained, and revegetated.

(b) Upon permanent abandonment of mining operations, the authorized officer will require that the unmined recoverable coal reserves and other resources be adequately protected. Upon completion of abandonment, the authorized officer will inform the responsible office of the surface managing agency and regulatory authority as to whether the abandonment has been completed in compliance with the rules of this part.

Subpart 3485—Reports, Royalties and Records

§ 3485.1 Reports.

(a) *Exploration reports.* The operator/lessee shall file with the authorized officer the information required in paragraph (b) of this section. Such filing shall be within 30 days after the end of each calendar year and promptly upon completion or suspension of exploration operations, unless otherwise provided in the exploration license or Federal lease, and at such other times as the authorized officer may request.

(b) *Exploration report content.* The exploration report shall contain the following information:

(1) Location(s) and serial number(s) of the federally leased or licensed lands.

(2) Nature of exploration operations.

(3) Number of holes drilled and/or other work performed during the year or report period.

(4) Total footage drilled during the year or other period as determined by the authorized officer.

(5) Map showing all holes drilled, other excavations, and the coal outcrop lines.

(6) Analyses of coal and other pertinent tests obtained from exploration operations during the year.

(7) Copies of all in-hole mechanical or geophysical stratigraphic surveys or logs, such as electric logs, gamma ray-neutron logs, sonic logs, or any other logs. The records shall include a log of all strata penetrated and conditions encountered such as water, quicksand, gas, or any unusual conditions.

(8) Status of reclamation of the disturbed areas.

(9) A statement on availability and location of all drill hole logs and representative drill cores retained by the operator/lessee pursuant to §3484.1(a) of this title.

(10) Any other information requested by the authorized officer.

(c) Any coal reserve base, minable reserve base or recoverable coal reserves estimates generated from an exploration license shall be submitted to the authorized officer within 1 year after completion of drilling operations.

(d) *Production reports and payments.*

(1) Operators/lessees shall report on USGS Form 9-373A, within 30 days after expiration of the period covered by the report, all coal mined, the basis for computing Federal royalty and any other form requirements, and shall make all payments due. Acceptance of the report and payment shall not be construed as an accord and satisfaction on the operator/lessee's Federal royalty obligation.

(2) Licensees shall report all coal mined on a semiannual basis on the report form provided.

(3) Non-Federal LMU production shall be reported in accordance with §3487.1(h)(1) of this title.

(e) *Penalty.* If an operator/lessee knowingly records or reports less than the true weight or value of coal mined, the authorized officer shall impose a penalty equal to either double the amount of Federal royalty due on the shortage or the full value, as determined in §3485.2 of this title, of the shortage. If, after notice, an operator/lessee or licensee maintains false records or files false reports, the authorized officer may recommend to the responsible officer of the surface managing agency that action be initiated to cancel the Federal lease or license, in addition to the imposition of any penalties.

(f) *Confidentiality.* Confidentiality of any information required under this section shall be determined in accordance with §3487.1(h)(1) of this title.

§3485.2 Royalties.

(a) Provisions for the payment of advance royalty in lieu of continued operation are contained at §3483.4 of this title.

(b) An overriding royalty interest, production payment, or similar interest that exceeds 50 percent of royalty first payable to the United States under the Federal lease, or when added to any other overriding royalty interest exceeds that percentage, except those created in order to finance a mine, shall not be created by a Federal lease transfer or surface owner consent. However, when an interest in the Federal lease or operating agreement is transferred, the transferor may retain an overriding royalty in excess of the above limitation if he shows that he has made substantial investments for improvements directly related to exploration, development, and mining on the land covered by the transfer that would justify a higher payment.

(c)(1) The authorized officer may waive, suspend, or reduce the rental on a Federal lease, or reduce the Federal royalty, but not advance royalty, on a Federal lease or portion thereof. The authorized officer shall take such action for the purpose of encouraging the greatest ultimate recovery of Federal